

### → Application

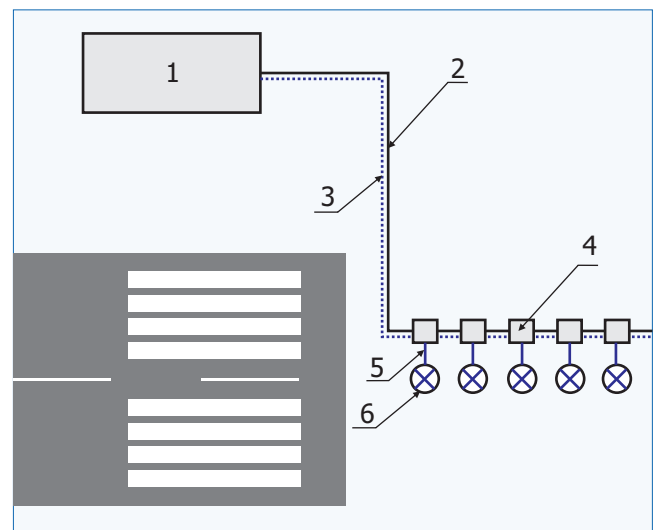
- the sequential flash system is designed for better identification of the approach lights and to identify the threshold or end of the runway

### → In accordance with

- ICAO Annex 14, Vol. 1
  - 5.3.4 Approach lighting systems
  - 5.3.8 Runway threshold identification lights
- EASA CS-ADR-DSN, Issue 2
  - CS ADR-DSN.M.630 Precision approach category I lighting system
  - CS ADR-DSN.M.635 Precision approach category II and III lighting system
  - CS ADR-DSN.M.670 Runway threshold identification lights
  - GM1 ADR-DSN.M.625 Approach lighting systems, general and applicability
  - GM1 ADR-DSN.M.670 Runway threshold identification lights

### → Description / properties

- the system is powered from the standard 3-phase LV network via the TFL 32.CU control unit
- controlling and monitoring of the lights is possible via the J-bus or contact control (limited monitoring functions)
- synchronization of the flash sequence between the lights is ensured by interconnection
- in the event of a failure of one RTIL, blocking of the second light is ensured
- for all HV components, limit switches are used to ensure the blocking and discharging of HV circuits in the event of opening the covers of these circuits
- the power box can be mounted vertically or horizontally
- light TFL 32.FH2
  - made of aluminum alloy
  - easy access to the terminal block thanks to the removable back cover
  - durable and optically stable output thanks to the PAR56 flash lamp
  - high level of safety through the use of limit switches
  - part of the light is a tiller which allows its easy setting in elevation



### → Construction

- |                            |            |
|----------------------------|------------|
| 1. control unit            | TFL 32.CU  |
| 2. power cables            |            |
| 3. communication cables    |            |
| 4. power box for lights    | TFL 32.PS  |
| 5. power cables for lights |            |
| 6. lights                  | TFL 32.FH2 |

chapter:

# 5.4.1

# TFL-32



➔ **Montage/connection/supplying:**

- 1. mounting for adjustable height (breakable coupling 001 057 and tube Ø 60 mm 001 400) or
- 2. mounting to the lowest optical height (only breakable coupling 001 057.1)
- the light is connected to the power box (TFL 32.PS) with a special HV cable (maximum length l = 15 m)
- the cable is led out of the light by the inside of the breakable coupling and the tube

➔ **Parameters of the control unit TFL 32.CU:**

- dimension (w×h×d) 575×1330×540 mm
- weight 85 kg
- surface finish gray baking enamel RAL 7035/RAL 7030
- power supply 3NPE ~50Hz 3×230/400V/TN-S
- protection IP20

➔ **Parameters of the power box TFL 32.PS:**

- dimension (w×h×d) 437×650×250 mm
- weight 16,5 kg
- power 271 VA (PF 0,77)
- protection IP 66

➔ **Parameters of the light TFL 32.FH2:**

- dimension (w×h×d) 214×292×198 mm
- weight 2,3 kg
- surface finish natural aluminum or yellow baking enamel RAL 1021
- lamp voltage max. 2000 V ±10 %
- flash energy max. 60 J at 2 Hz
- protection IP 55
- power 271 VA (PF 0,77)
- resistance to environmental influences
  - working temperature -40 ÷ +55 °C
  - resistance to thermal shock (sudden change of surface temperature)
  - moisture resistance up to 95 % at 55 °C, including condensation and icing conditions
  - resistance to salt mist
  - rain resistance
  - wind resistance up to 480 km/h

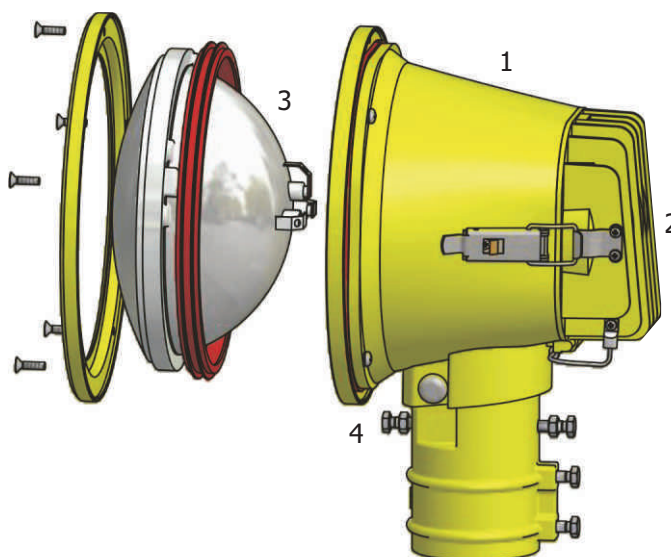
➔ **Ordering codes:**

- TFL 32.CU control unit 902-300
- TFL 32.PS power box for the light 902-301
- TFL 32.FH2 flash light 902-303

\* power and data cables are ordered separately according to a specific project

\* it is necessary to order a specific length of the HV cable (depending on the distance to the TFL 32.PS power case) for individual flash lights, otherwise they will be supplied in a standard version (1.5 m HV cable)

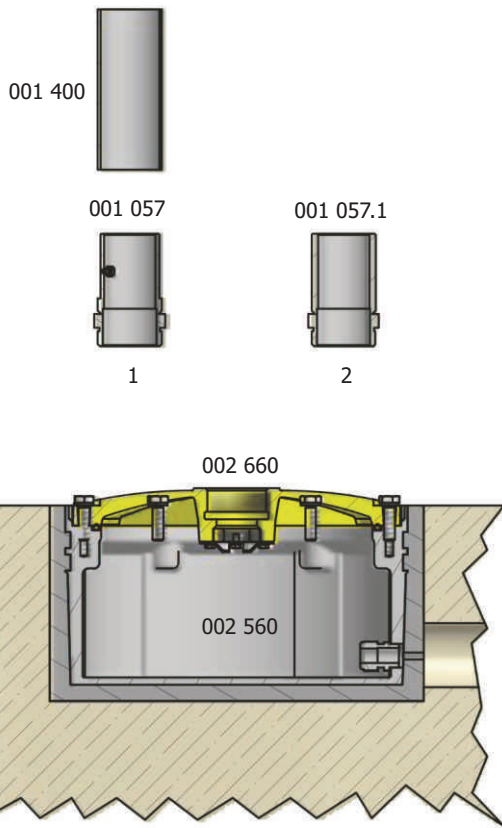
\* the sets for fitting the power box must be ordered separately according to a specific project



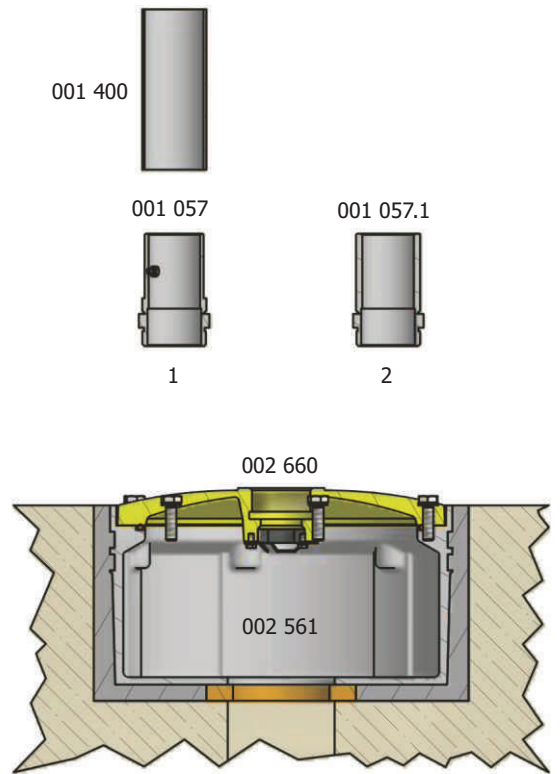
➔ **Construction**

- 1 support of the light
- 2 back cover
- 3 PAR56 flash lamp
- 4 tiller

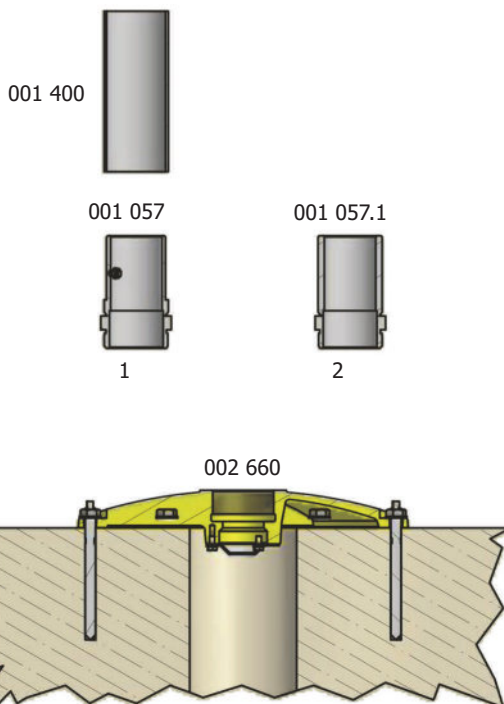
assembly on substructures - side outlet



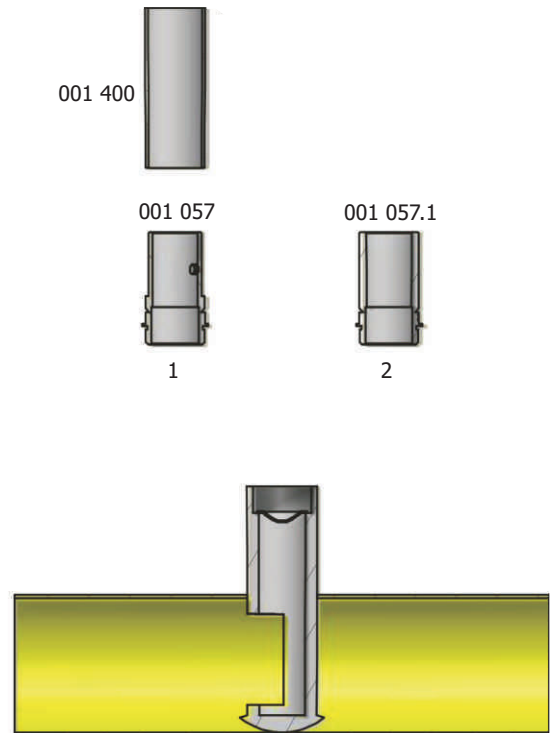
assembly on substructures - bottom outlet



assembly on base plate and concrete



assembly on crossbar



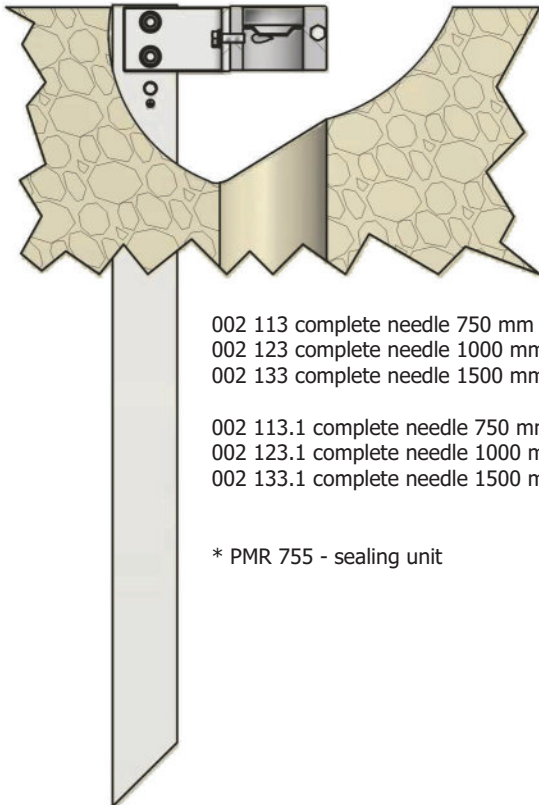
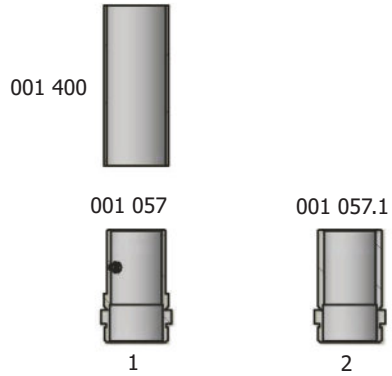
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# 5.4.1

# TFL-32



assembly on needle



- 002 113 complete needle 750 mm
- 002 123 complete needle 1000 mm
- 002 133 complete needle 1500 mm
  
- 002 113.1 complete needle 750 mm + PMR 755
- 002 123.1 complete needle 1000 mm + PMR 755
- 002 133.1 complete needle 1500 mm + PMR 755

\* PMR 755 - sealing unit